



City of Chesapeake Health Profile

August 2007



August 27, 2007



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Chesapeake, VA

Demographic/ Economic Snapshot

“Over the years, it has become clear that individual health is closely linked to community health—the health of the community and environment in which individuals live, work, and play. Likewise, community health is profoundly affected by the collective beliefs, attitudes, and behaviors of everyone who lives in the community.”

--Healthy People 2010



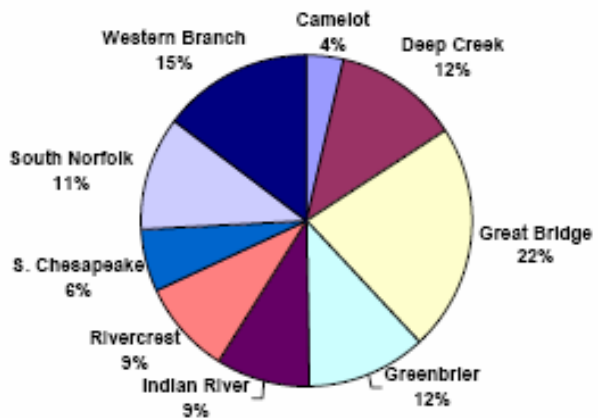
Chesapeake, VA

Time for the Data Charts



POPULATION DISTRIBUTION AND GROWTH

2006 Area Populations as a Percent of City Total

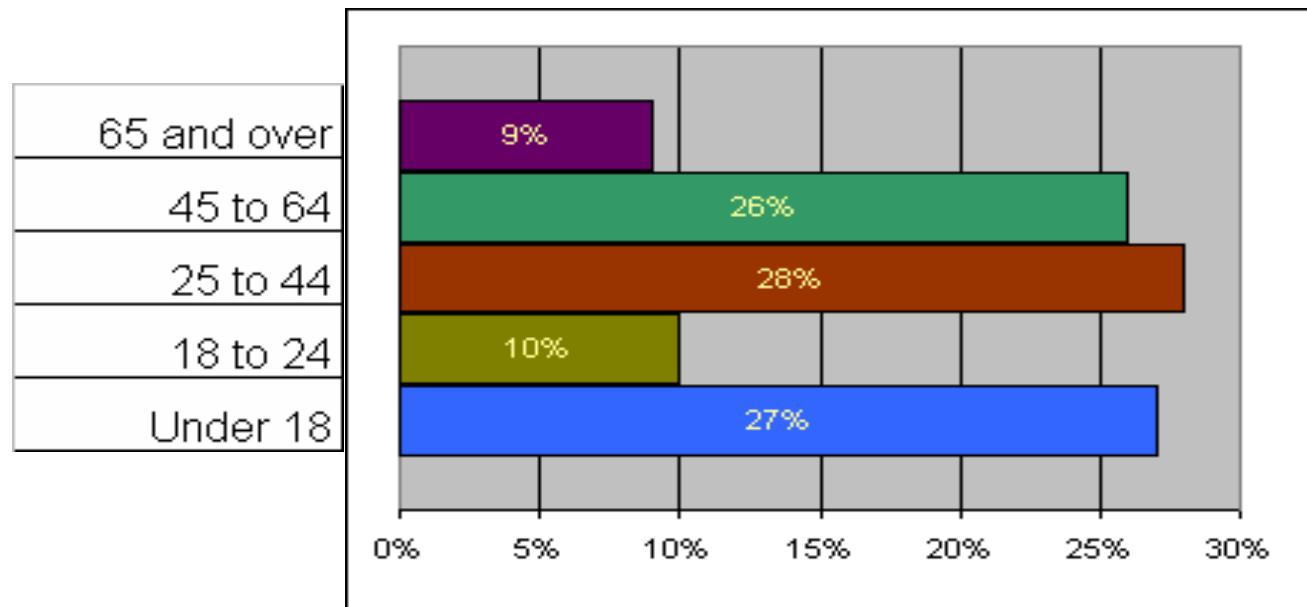


Source: Chesapeake Planning Dept.
2006 Statistical Profile

- The City's growth rate has declined significantly since 1995, with an average annual rate of 1.4% between 1996 and 2006.
- The City's estimated population as of January 1, 2007 is 221,282 persons.
- The 2006 estimate represents a 1.46% rate of change between 2006 and 2007. The 1.46% figure marks a slight increase over the 1.4% average annual growth rate that has occurred over the past decade, but is a smaller increase than last year (1.71%).

POPULATION DISTRIBUTION of Chesapeake

- In 2005, Chesapeake had a household population of 215,000 –
- 111,000 (52 percent) females and 103,000 (48 percent) males.
- The median age was 35.8 years.
- Twenty-seven percent of the population were under 18 years and 9 percent were 65 years and older.

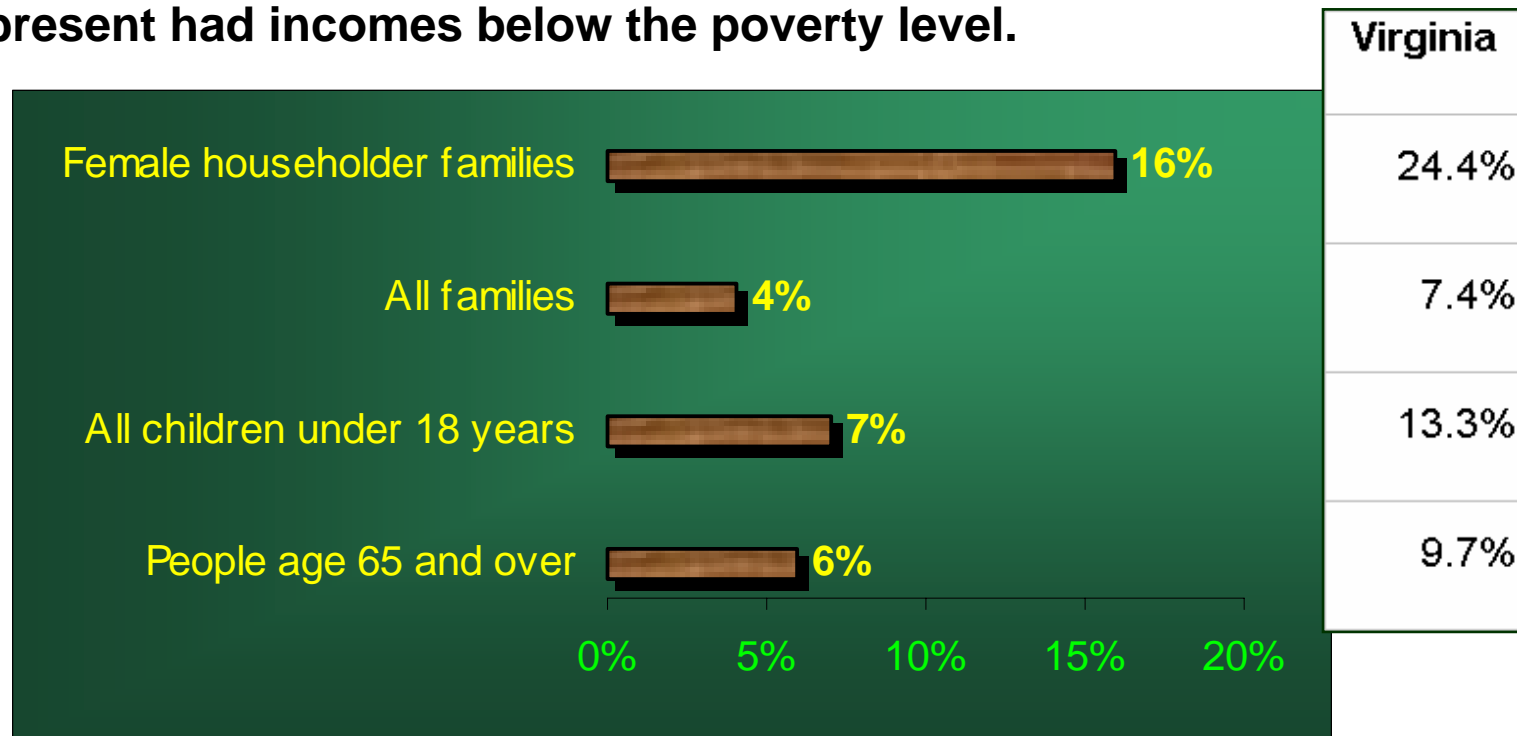


Source: American Community Survey, 2005

Poverty Rates in Chesapeake in 2005

(Percent below poverty level)

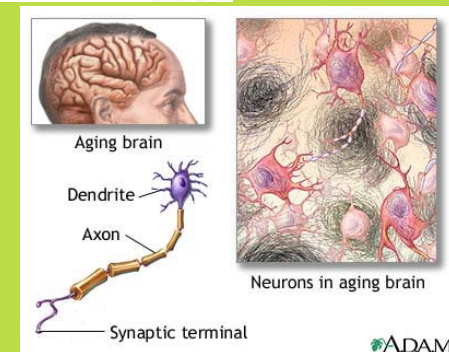
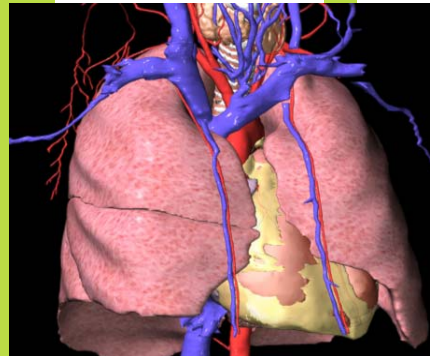
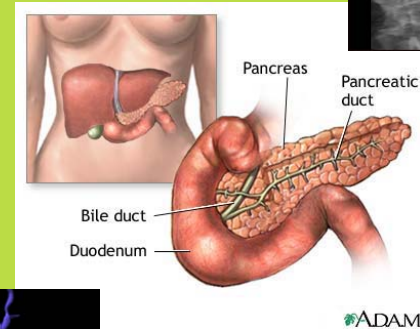
In 2005, 6 percent of people were in poverty. Seven percent of related children under 18 were below the poverty level, compared with 6 percent of people 65 years old and over. Four percent of all families and 16 percent of families with a female householder and no husband present had incomes below the poverty level.



Source: U.S. Census Bureau, 2005 American Community Survey

Chronic Disease

- Cardiovascular Disease
- Hypertension
- Diabetes Mellitus
- Cerebrovascular Disease (Stroke)
- Chronic Lower Respiratory Disease
- Malignant Neoplasms



Chesapeake, VA

RISK FACTORS RELATED TO CHRONIC DISEASE

- Chronic disease does not happen randomly, or just by chance. The odds of a person developing a chronic disease are directly related to one or more risk factors that he or she has. These risk factors may be generally categorized into one of two categories:



Chronic Disease Health Indicators

RISK FACTORS, DISABILITY AND ASTHMA						
	Percent Adults Who Are Obese (2004)	Percent Adults Who are Current Smokers (2004)	Percent Adults with Arthritis in Lifetime (2004)	Percent Adults Living with a Disability (2004)	Percent Adults with Current Asthma (2004)	Asthma Hospital Discharge Rate (per 10,000) (2004)
VIRGINIA	23.1	20.8	29.0	16.8	7.3	12.9
Chesapeake	19.8	15.8	23.9	12.4	11.7	10.0
DIABETES, HEART DISEASE & STROKE						
	Diabetes Hospital Discharge Rate (per 10,000) (2004)	Percent Adult Diabetes Prevalence (2004)	Diabetes Death Rate (per 100,000) (2004)	Heart Disease Death Rate (per 100,000) (2004)	Cerebrovascular Disease Death Rate (per 100,000) (2004)	
VIRGINIA	16.0	7.0	22.0	200.5	54.0	
Chesapeake	18.7	4.1	35.2	204.7	53.0	

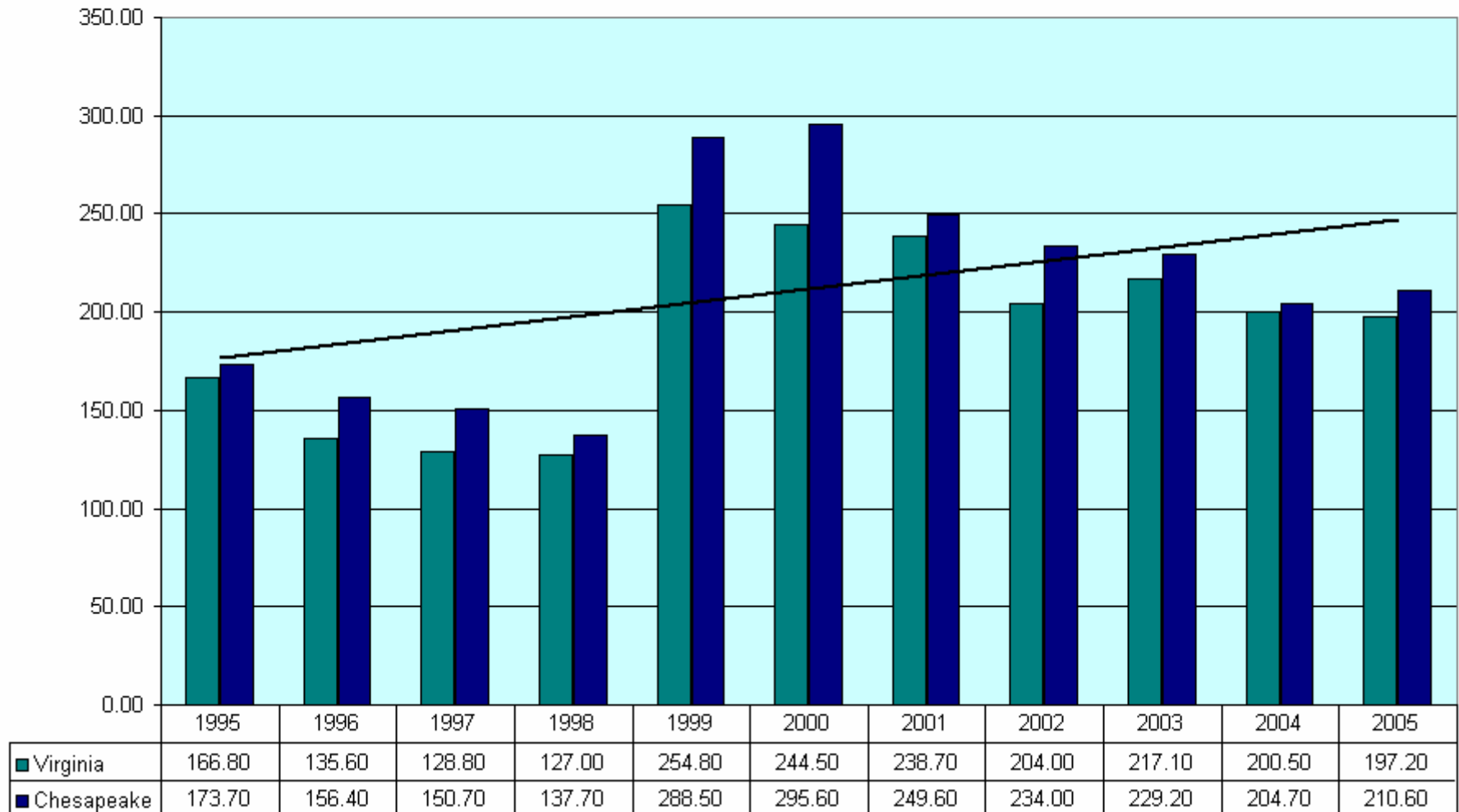
Source: Chronic Disease in Virginia – 2006, pgs. 84-85

Chronic Disease Health Indicators

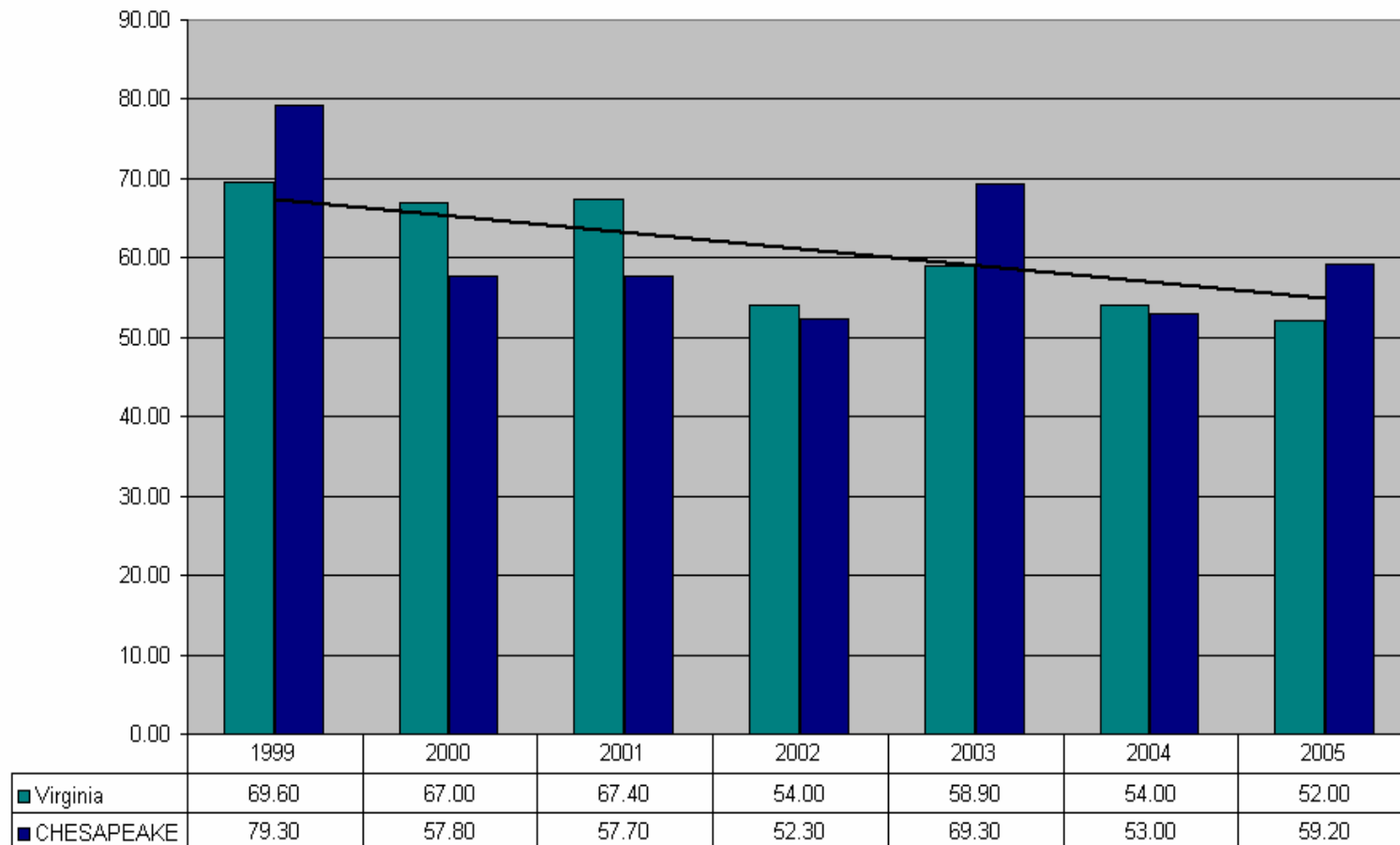
CANCER					
	Cancer Deaths (Rate per 100,000) (1999-2003)	Breast Cancer Deaths (Rate per 100,000) (1999-2003)	Colorectal Cancer Deaths (Rate per 100,000) (1999-2003)	Lung Cancer Deaths (Rate per 100,000) (1999- 2003)	Prostate Cancer Deaths (Rate per 100,000) (1999-2003)
VIRGINIA	202.5	27.6	20.3	57.8	33.0
Chesapeake	227.8	29.7	26.0	66.8	37.0
CANCER PREVENTIVE SERVICES					
	Mammogram Past 2 Years, Women Age 40+ (2003-2004)	Pap Test Past 3 Years, Women Age 18+ (2003-2004)	PSA Test Past 2 Years, Men Age 40+ (2002 & 2004)	Sigmoidoscopy/ Colonoscopy - Lifetime, Age 50+ (2002 & 2004)	FOBT Past 2 years, Age 50+ (2002 & 2004)
VIRGINIA	75.7	86.7	53.7	55.1	28.2
Chesapeake	75.7	92.5	46.3	56.2	23.3

Source: Chronic Disease in Virginia – 2006, pgs. 86-87

**Resident Deaths Caused by Diseases of the Heart
w/Age-Adjusted Rates per 100,000 Population
(Trendline for Chesapeake)**



**Resident Deaths Caused by Cerebrovascular Diseases
w/ Age-Adjusted Rates per 100,000 Population
(Trendline for Chesapeake)**

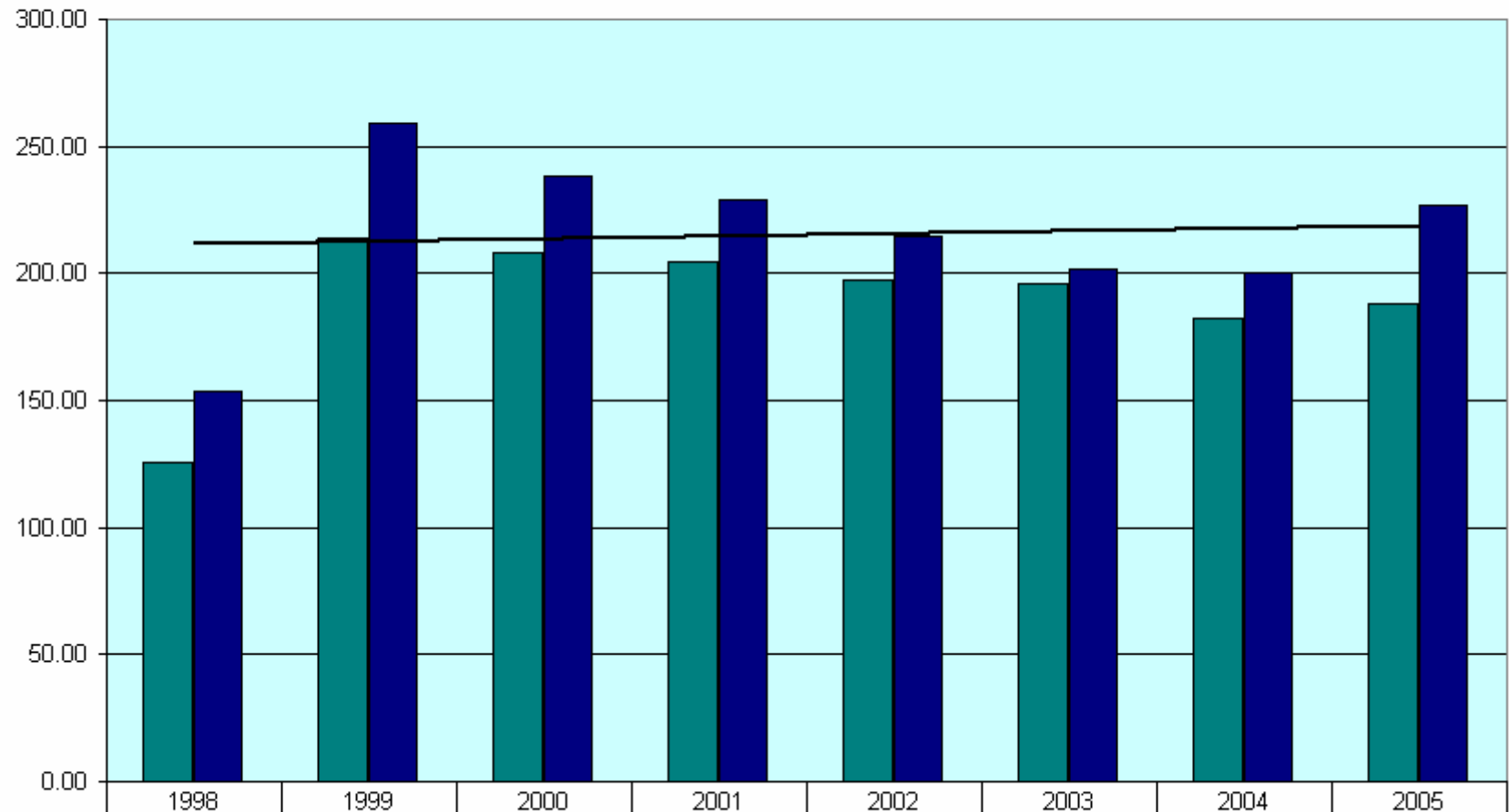


CVD Deaths and Gender

What the charts do NOT show-

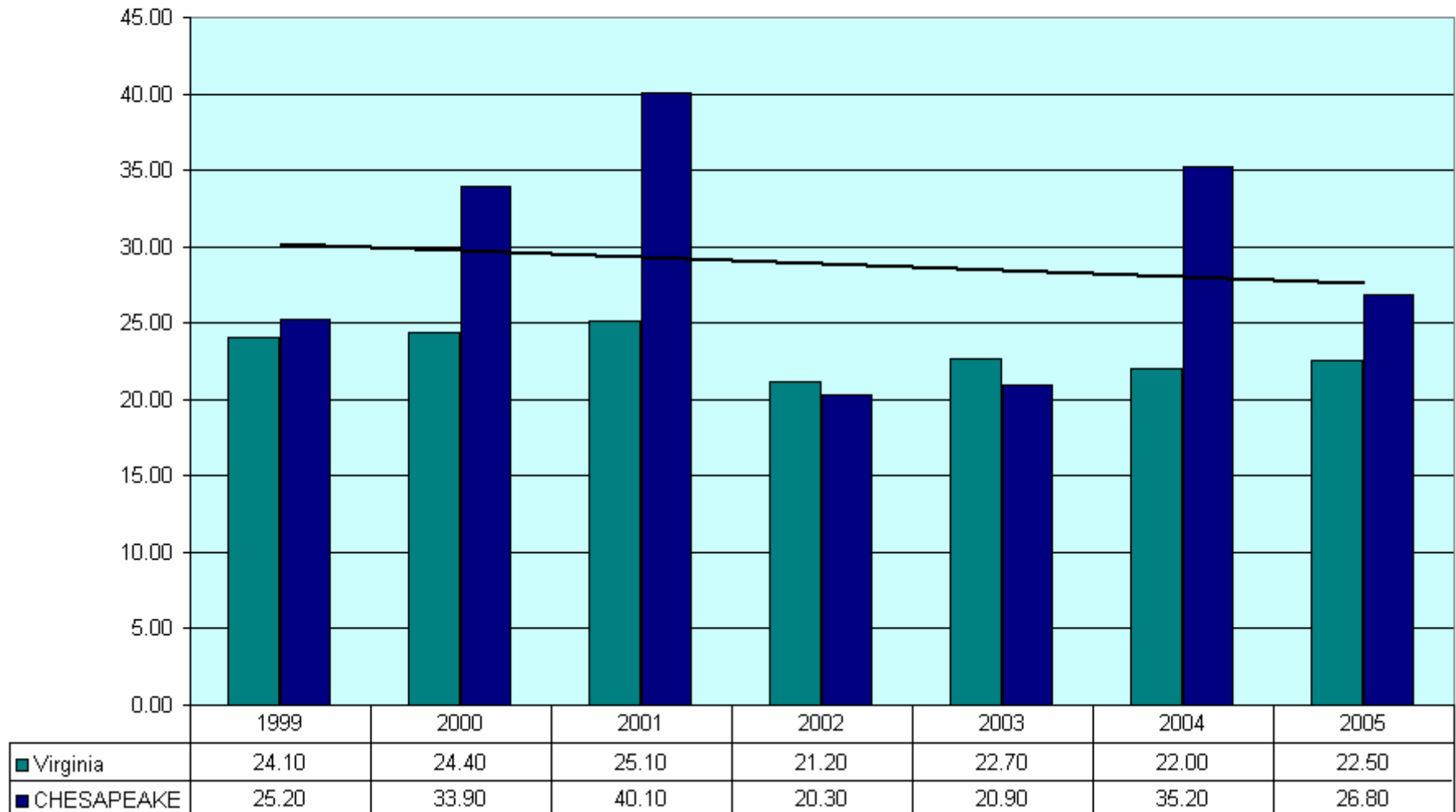
- The decline of CVD deaths in Virginia, in terms of percentage, is less for women than men.
- Although stroke mortality rates are similar for men and women, women are more likely to have a stroke at a younger age (40s or 50s) and are more likely to die from stroke.
- Nationally, women account for more than 60% of the annual deaths due to stroke, making it the second leading cause of death among American women.

**Resident Deaths Caused by Malignant Neoplasms
w/Age Adjusted Rates per 100,000 Population
(Trendline for Chesapeake)**



■ Virginia	125.70	214.20	207.80	204.20	197.60	195.70	182.40	188.20
■ CHESAPEAKE	153.90	259.20	238.1	228.90	214.7	202	200	226.7

Resident Deaths Caused by Diabetes Mellitus
w/Age-Adjusted Rates per 100,000 Population
(trendline for Chesapeake)



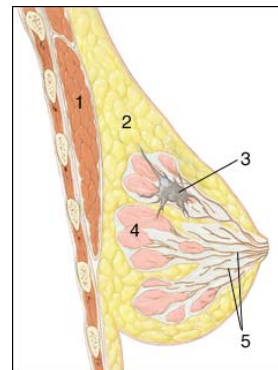


Breast & Cervical Cancer Education Program (BCCEDP)

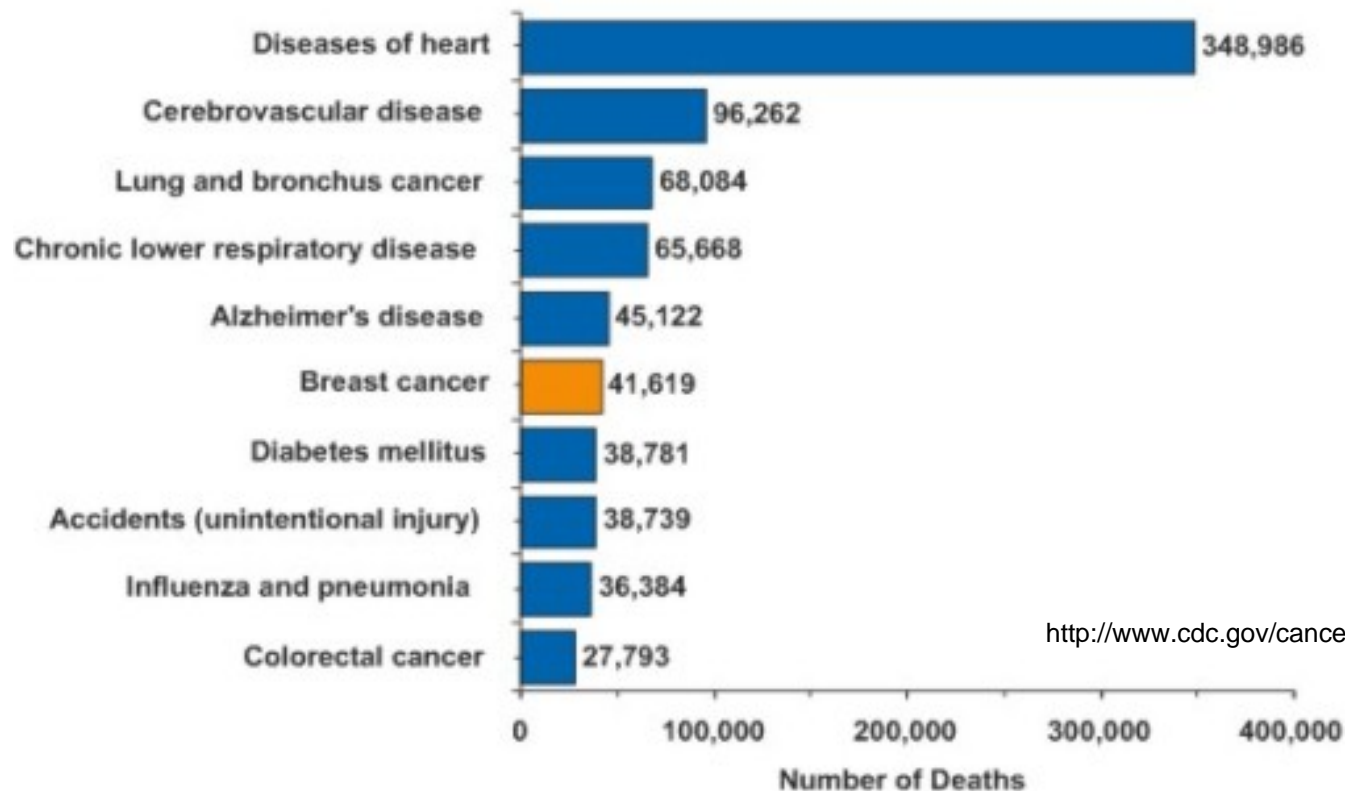
- Chesapeake “Every Woman’s Life” Statistics:

	FY 02-03*	FY 03-04	FY 04-05	FY 05-06	FY 06-07
# Patients diagnosed with breast cancer	2	5	6	6	10
# Patients with abnormal cervical results	4	15	10	4	6

- Four surgeons, two gynecologists, one radiologist group, one pathologist group, one anesthesiologist group & Chesapeake General Hospital volunteer services to this program.
- During the past 12 months:
 - 7 Colposcopies
 - 38 Surgical consultations
 - 14 Needle Biopsies
 - 7 Stereotactic biopsies
 - 5 Surgeries
 - 310 Mammograms
 - 32 Ultrasounds

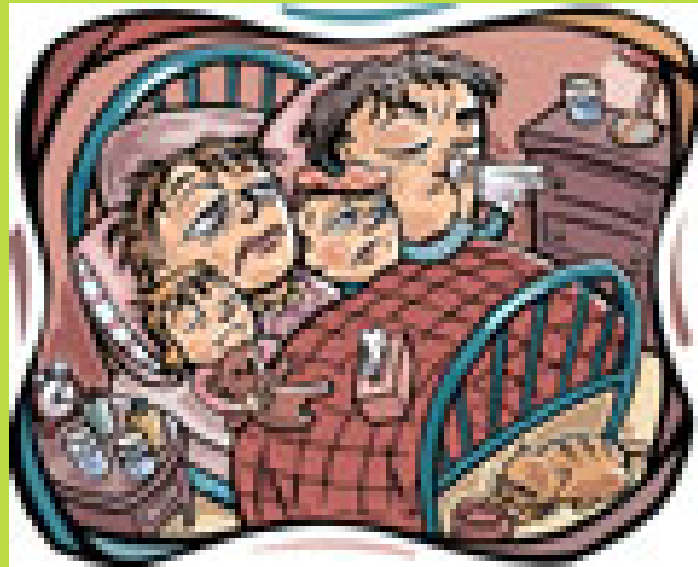


Top 10 Causes of Death for Women in the U.S.



- Aside from non-melanoma skin cancer, breast cancer is the most common form of cancer in women.
- Breast cancer is the number one cause of cancer death in Hispanic women and the second most common in white, black, Asian/Pacific Islander, and American Indian/Alaska Native women.

Infectious Disease



Chesapeake, VA

Tuberculosis (TB)



Learn More About TB

Persons at risk for acquiring TB infection are those who have been in close contact with a person who has active TB disease, lived in a country where TB is common, or live or work in congregate setting at high risk for TB.

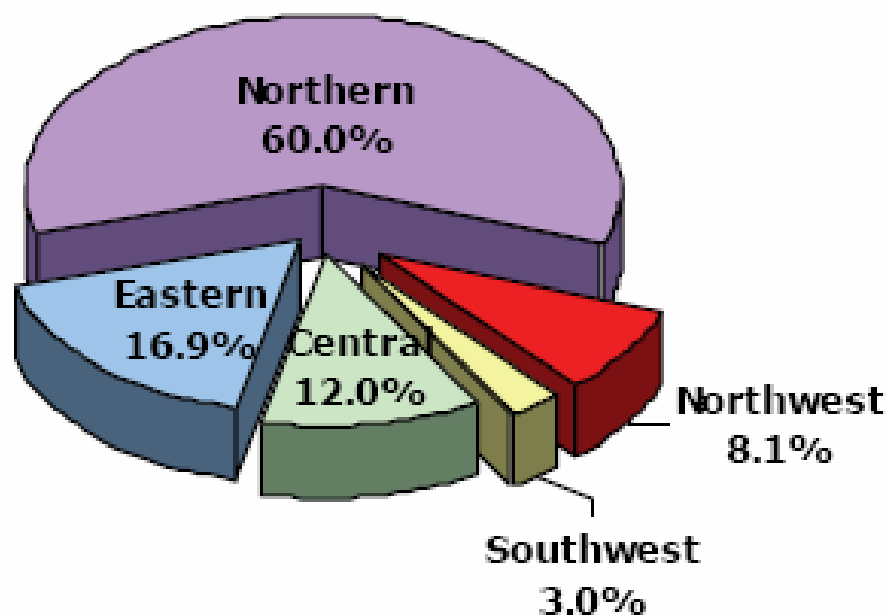
Risk Factors:

- Recent TB infection.
- HIV-positive.
- Certain medical conditions
- Inject illicit drugs
- Take medications that suppress the immune system.

Clinical Symptoms of TB:

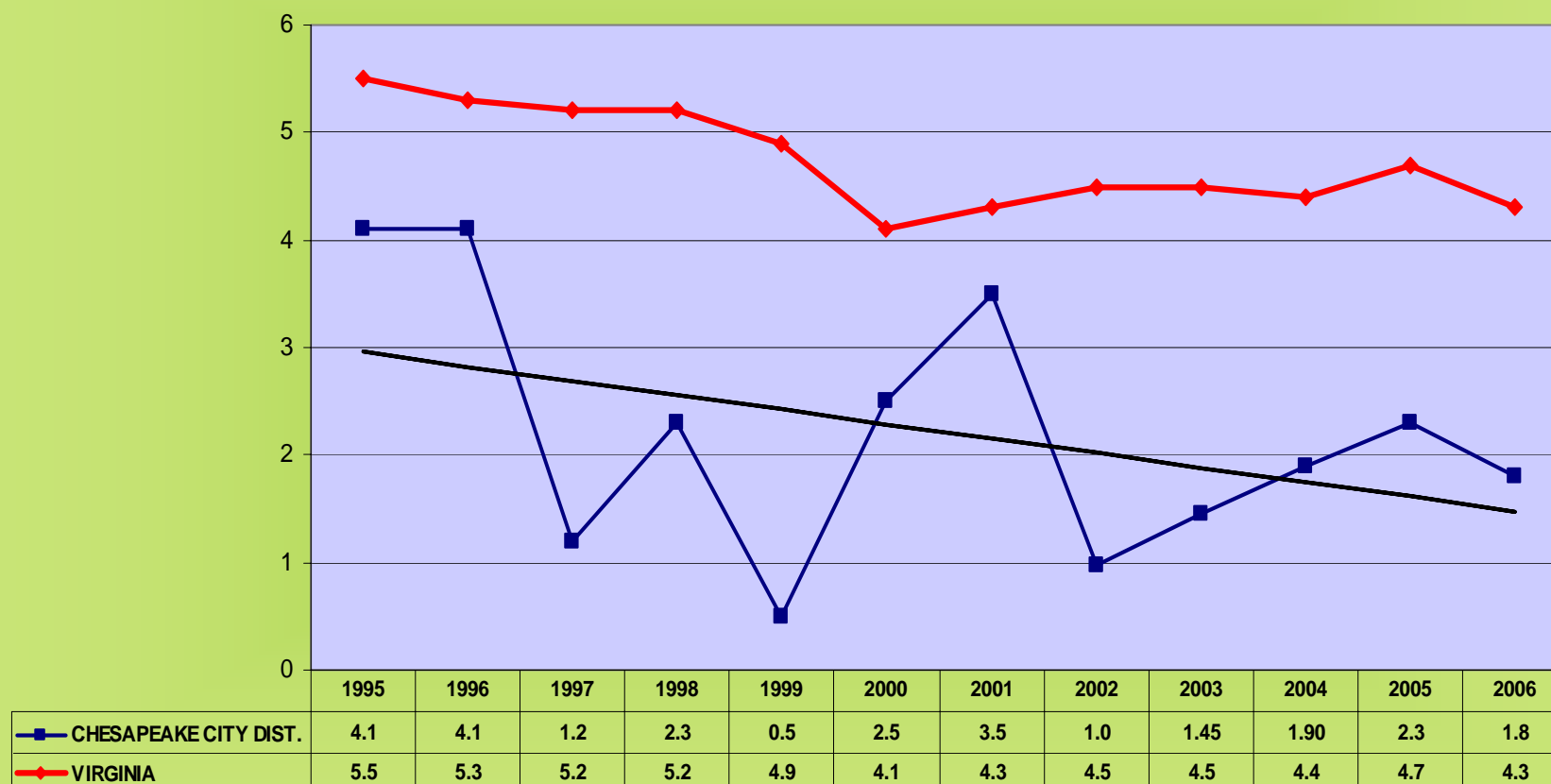
- Productive cough, lasting 3 weeks or more.
- Unexplained weight loss
- Unexplained chest pain
- Poor appetite
- Night sweats
- Fatigue

TB Cases by Health Region: 2006 (n=332)



TB Rates

TB Case Rate/100,000 Population
(Trendline for Chesapeake)



Influenza

Pandemic influenza is a global outbreak of disease that occurs when a new influenza A virus appears in humans, causes serious illness and then spreads easily from person to person worldwide. Three major influenza pandemics swept the globe in the 20th century causing millions of deaths, and no one knows for sure when the next pandemic may strike. Efforts are underway to plan for the complex issues and serious impact that a new influenza pandemic could cause in the Commonwealth



Planning



In Virginia, pandemic flu impact estimates include:

2,700 to 6,300 deaths

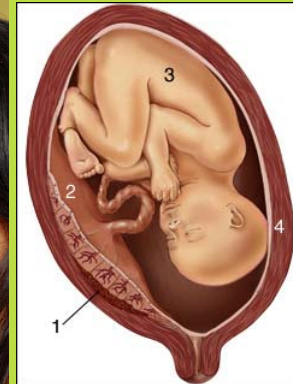
12,000 to 28,500 hospitalizations

575,000 to 1.35 million outpatient visits

1.08 million to 2.52 million people becoming sick

How are Pandemic, Avian and Seasonal Flu different?

Maternal & Child Health

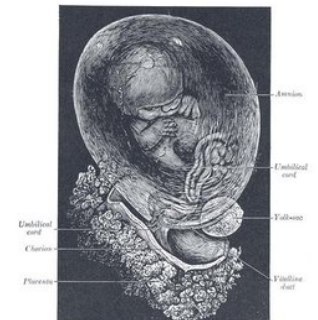


Chesapeake, VA

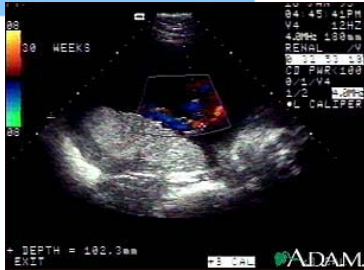
Infant Mortality

- Infant mortality is the death of an infant born alive, prior to one year of age.
- Despite the fact that VA ranked 9th in per capita income in 2006, the Commonwealth ranks 31st among states on the measure of infant mortality.

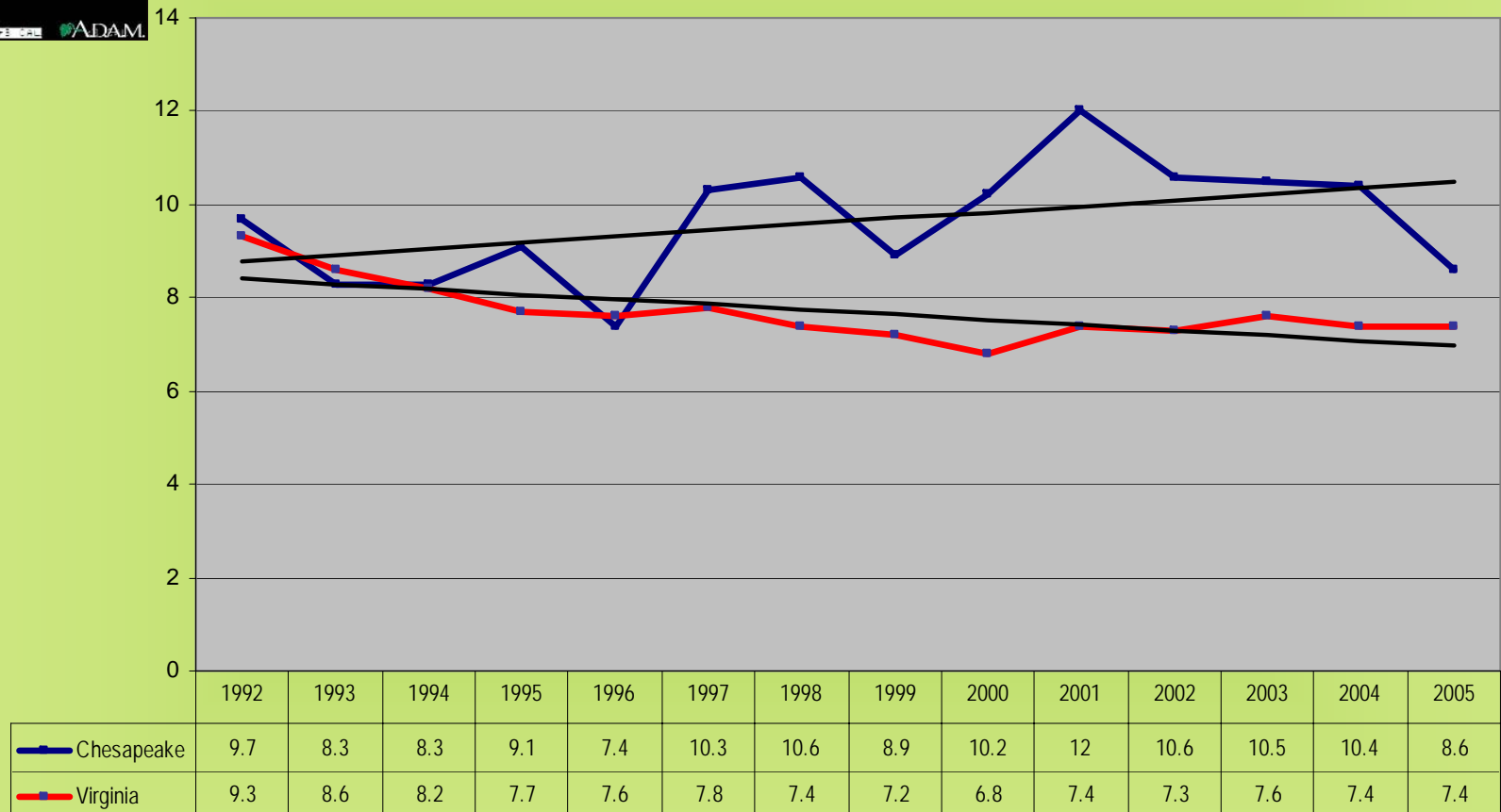
Mortality		Trend Data				
		2001	2002	2003	2004	2005
Infant Mortality (raw number)	Chesapeake	33	29	30	31	25
	VA	730	725	766	768	777
Infant Mortality Rate (number of deaths per 1,000 births) *see	Chesapeake	12.0	10.6	10.5	10.4	8.6
	VA	7.4	7.3	7.6	7.4	7.4
Child Deaths (raw number)	Chesapeake	8	4	6	11	2
	VA	230	256	270	254	270
Infant Mortality (5 year average rate 2001-2005)	Chesapeake	-	-	-	-	10.4
	VA	-	-	-	-	7.4
Teen Mortality	Chesapeake	6	4	6	8	10
	VA	289	307	299	302	302
Healthy Births		Trend Data				
		2001	2002	2003	2004	2005
Prenatal Care Beginning in the First Trimester	Chesapeake	88.1%	88.5%	88.6%	87.6%	89.1%
	VA	84.9%	84.7%	84.8%	84.8%	84.6%
Births to Teen Girls (number of births per 1,000 girls)	Chesapeake	25	15	16	18	15
	VA	21	19	17	18	16
Non-Marital Births	Chesapeake	33%	34%	33%	33%	32%
	VA	30%	31%	31%	31%	32%
Low-Birthweight Babies	Chesapeake	8.4%	8.2%	8.4%	8.7%	7.3%
	VA	7.9%	8.0%	8.2%	8.4%	8.2%



Infant Mortality

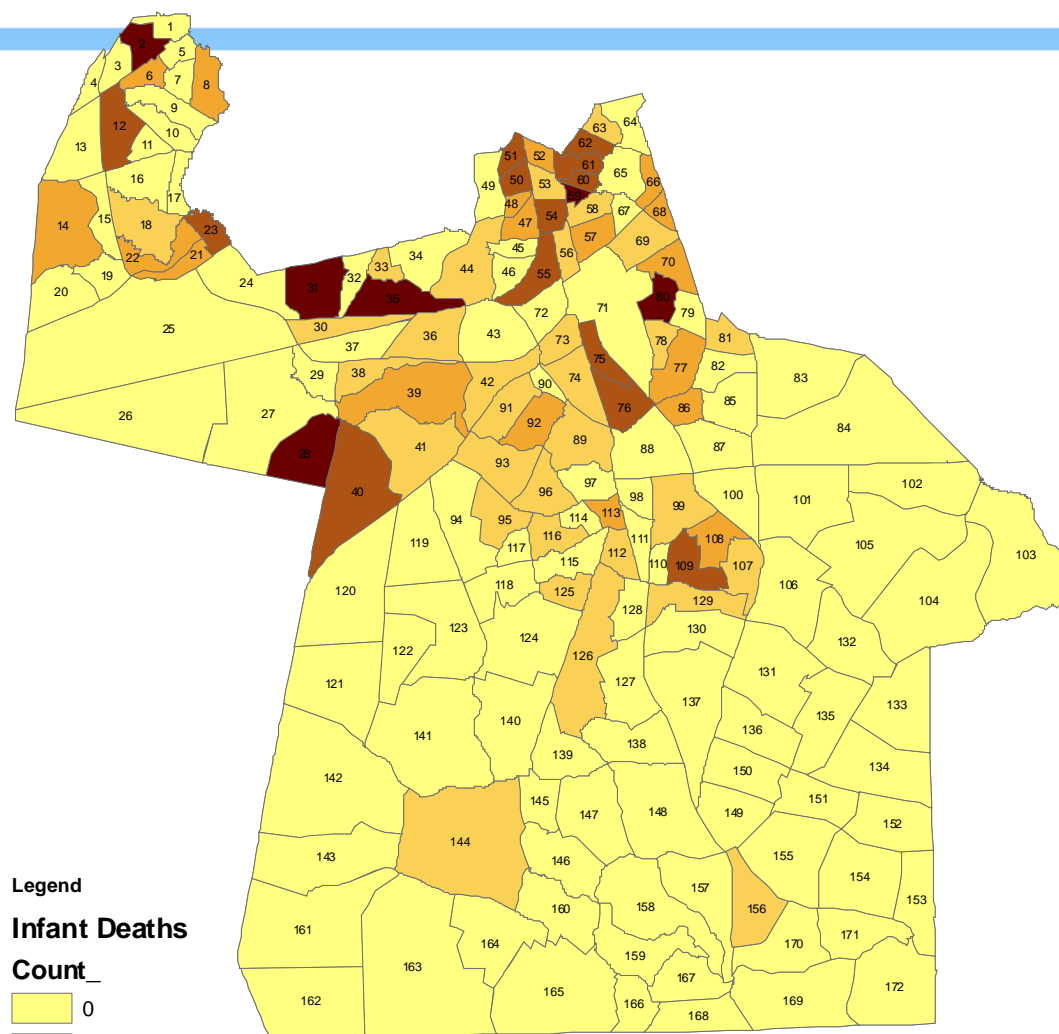


Total Infant Mortality Rate/1000 Births
w/trendlines



Chesapeake Infant Deaths 1999-2004

QOL_NSAs



Legend

Infant Deaths

Count_

0

1

2

3 - 4

5 - 6

See Chesapeake Quality of Life Study for individual NSA list by number.

Access to Health Care



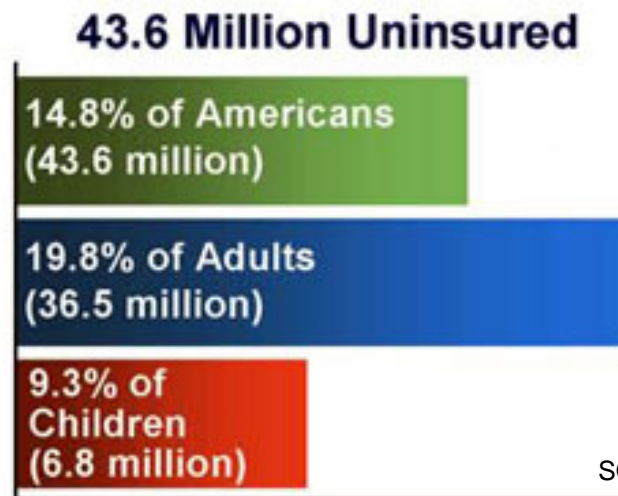
Chesapeake, VA

Uninsured in US & VA

Percentage of persons in selected states who lacked health insurance coverage at the time of interview or with public or private coverage at the time of interview, by age group: United States, 2006

Age group and state	Uninsured at the time of interview	Public coverage	Private coverage
	Percent (Standard Error)		
All states	14.8 (0.26)	27.5 (0.35)	65.3 (0.45)
Virginia	10.6 (1.11)	25.6 (1.73)	73.3 (1.95)

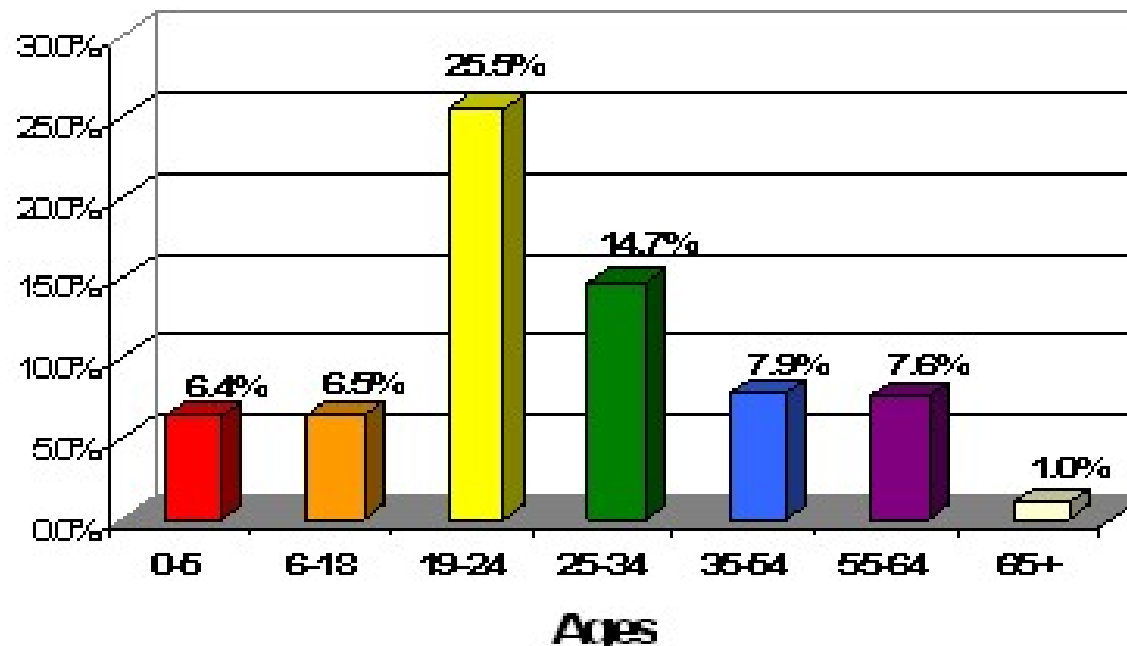
<http://www.cdc.gov/nchs/data/nhis/earlyrelease/insur200706.pdf>



SOURCE: National Health Interview Survey, 2006

Uninsured in VA: Facts at a Glance

Virginia's non-elderly adults are more likely to be uninsured than the state's children. Over 11% of adults aged 19 to 64 lack health insurance compared to just over 6% of all children 18 years and younger. **Young adults ages 19 to 24 have the highest rate of uninsurance.**

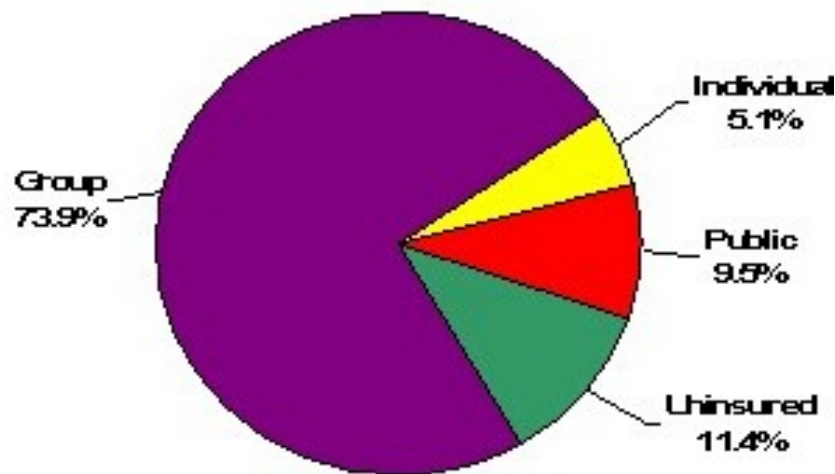


Source: 2004 Virginia Health Care Insurance and Access Survey

Changes affecting coverage

Increases in Medicaid and FAMIS (SCHIP) enrollment since 2001 have helped to lower uninsurance rates of children and pregnant women. While higher rates of unemployment and an influx of new immigrants have led to an increase in the uninsured adult population. Private, employment related insurance accounted for the majority of coverage across the Commonwealth.

Insurance Coverage in Virginia for Adults (19-64)



The uninsured are more likely not to see a doctor because of cost.

As well as, nearly 13% of Virginians without health insurance report poor health.

Environmental Health



Chesapeake, VA

Food-borne Illness

- January 2005—August 2007:



477 food-borne complaints investigated (includes illness and unsanitary restaurant conditions)

Rabies



- 63 confirmed cases of rabies since 1988 (3 cats, 2 bats, 46 raccoons and 12 foxes).

The following precautions are recommended:

Be sure dogs and cats are up-to-date on vaccinations.

Keep pets confined to home or yard.

Keep yards free of food that could attract wildlife.

Do not handle or touch stray animals or wildlife.

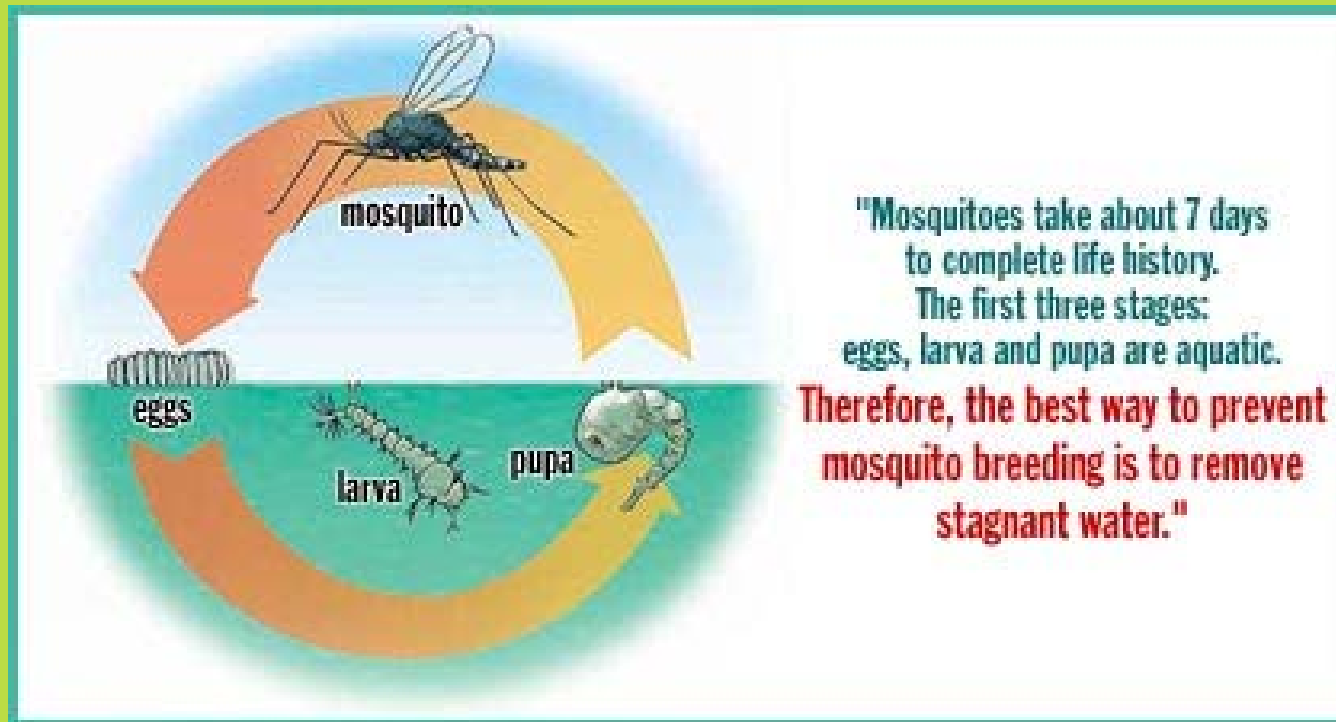
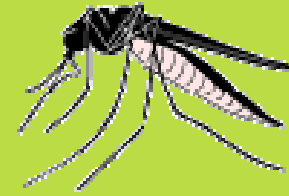
Warn children to report any animal bites or scratches.

Report stray or unvaccinated animals.

Report all animal bites to the Chesapeake Health Department **(382-8672)**

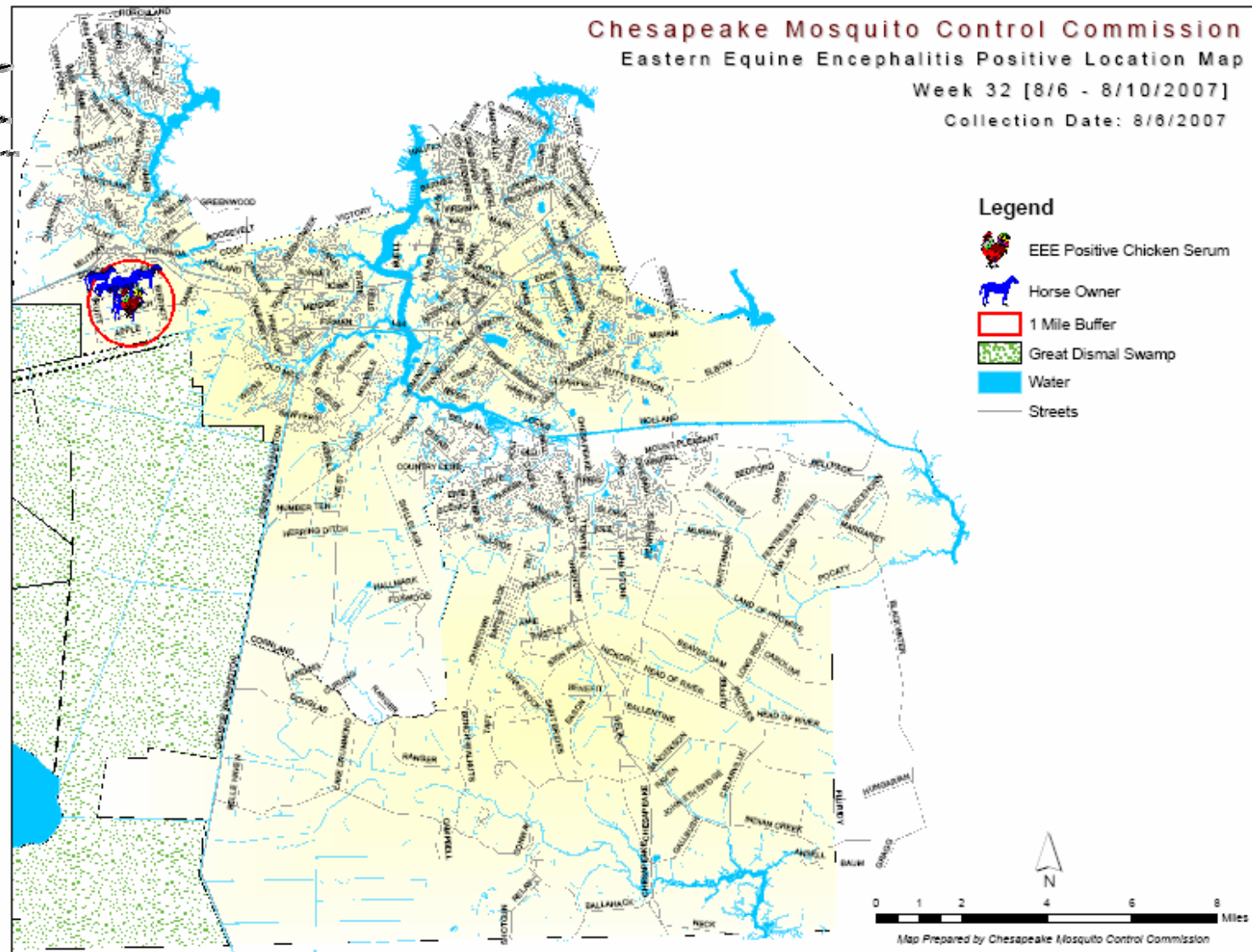
OR Chesapeake Animal Control (382-8080)

Vector-borne Disease in Chesapeake -- West Nile Virus (WNV) and Eastern Equine Encephalitis



Chesapeake Mosquito Control Commission

Using GIS Mapping with Buffer Zones





Chesapeake Mosquito Control Commission October Surveillance Data

Legend

★ Focus Point

Service Requests [Mosquitos]

Week_ID

● 10/1 - 10/7/2006 [7]

● 10/8 - 10/14/2006 [4]

● 10/15 - 10/18/2006 [2]

● Sentinel Traps

▨ Larvicide Treatment Zone [1 Mile Buffer]

□ 2 Mile Buffer Zone

Mosquito Control Efforts

Service Request Response

Date	Action Taken
October 1, 2006	Portable Fogging
October 2, 2006	Portable Fogging
October 2, 2006	Portable Fogging
October 3, 2006	Portable Fogging
October 3, 2006	Other
October 5, 2006	Portable Fogging
October 5, 2006	Portable Fogging
October 11, 2006	Portable Fogging
October 11, 2006	Other
October 12, 2006	Other
October 12, 2006	Portable Fogging
October 18, 2006	Other
October 18, 2006	Other

ULV Application

Last Performed

Date	Action Taken
September 27, 2006	Truck Fogging

Larvicide Application

Within 1 Mile Buffer Zone

October 2, 2006
October 3, 2006

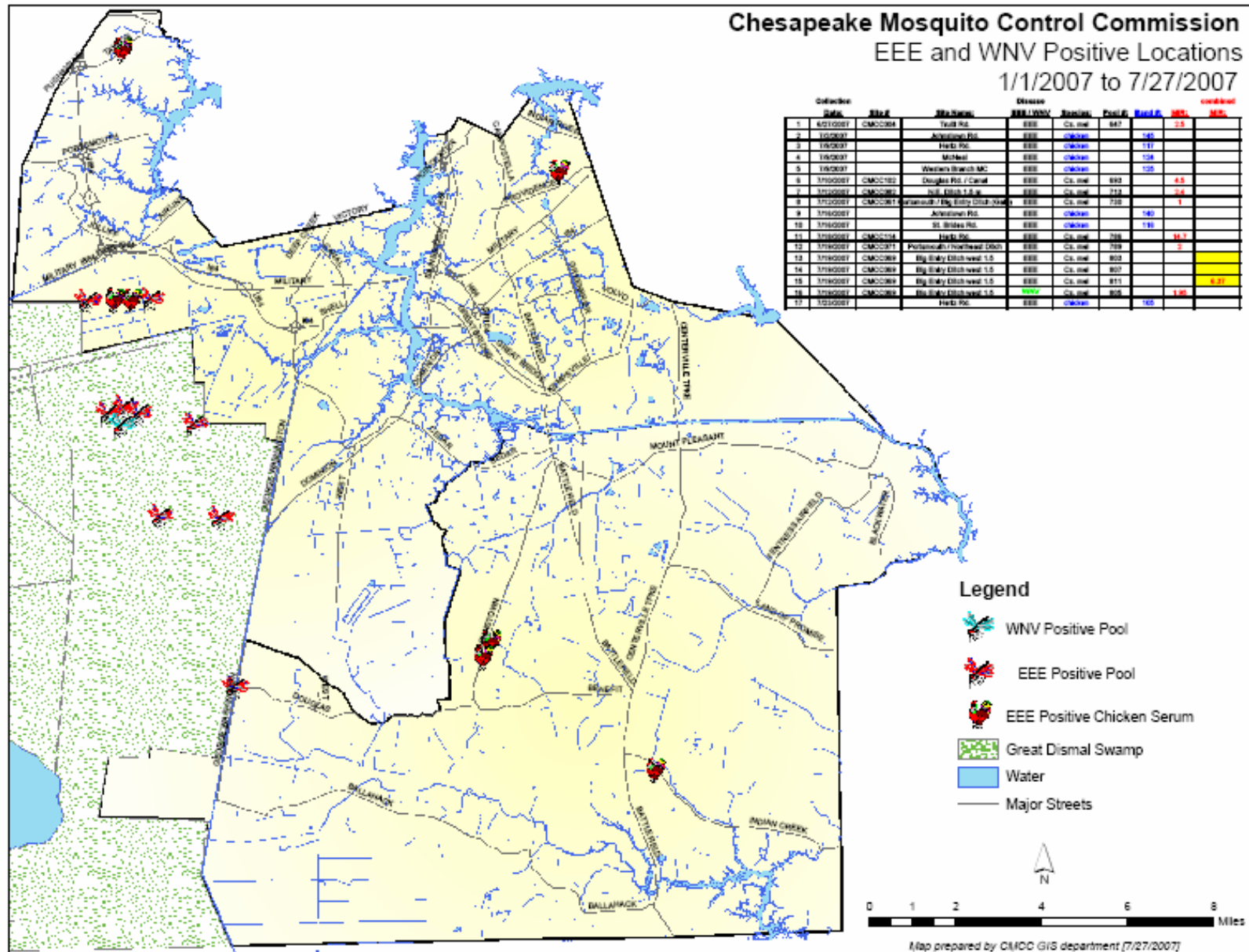
Sentinel Trap Data

Trap ID	Week 40 10/2 - 10/5	Week 41 10/9 - 10/13	Week 42 10/16 - 10/20	Week 43 10/23 - 10/27	Week 44 10/30 - 11/3
CMCC017	117	43	97	5	76
CMCC080	300	219	155	0	752

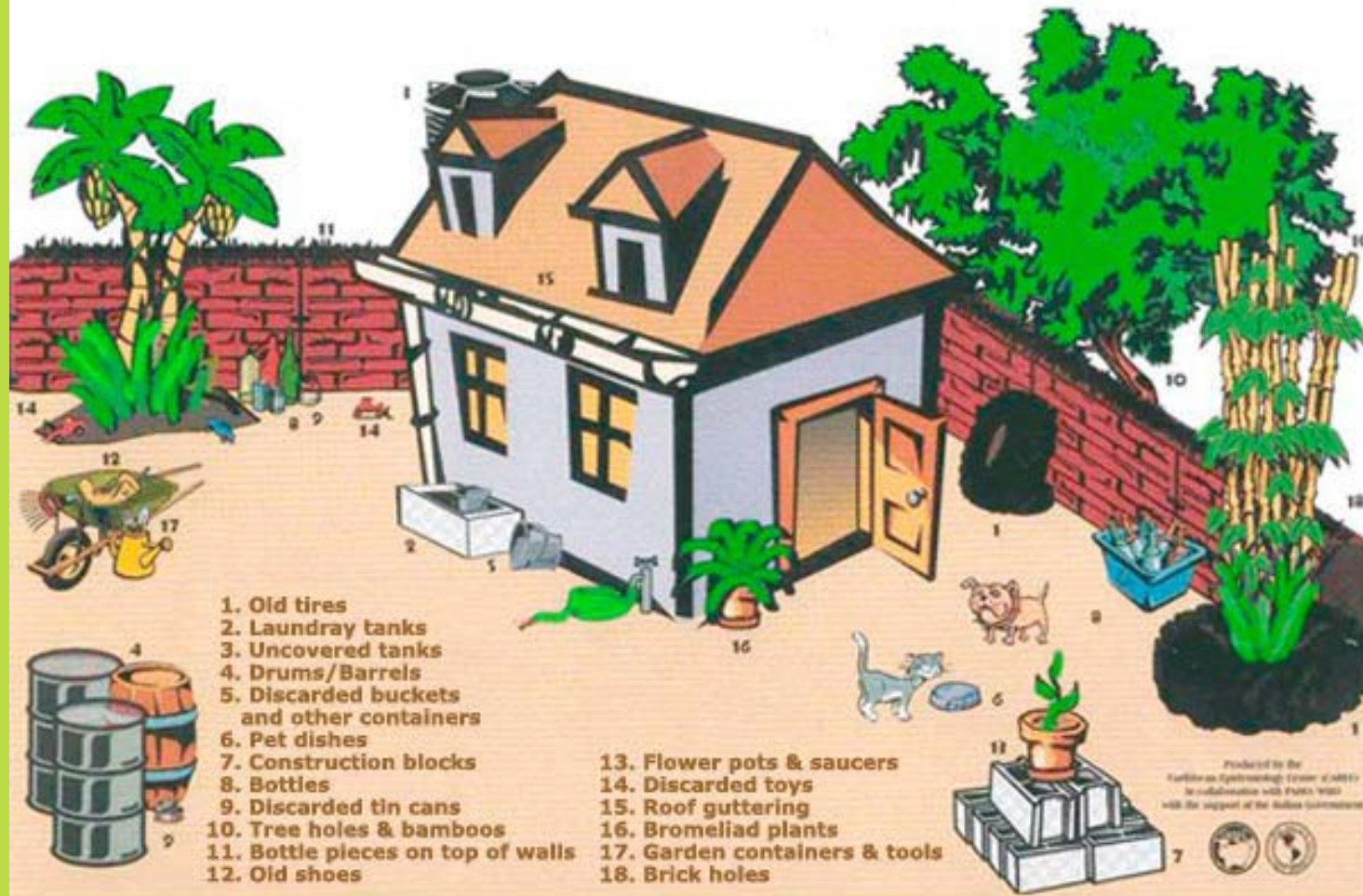
Map Prepared by Chesapeake Mosquito Control GIS Department
Chesapeake, Virginia
November 16, 2006

Chesapeake Mosquito Control Commission EEE and WNV Positive Locations 1/1/2007 to 7/27/2007

Collection Date	Site #	Site Name	Dist	Dist	Dist	Dist	Dist	Dist	Dist
Site #	Site Name	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist
1	40210001	CMCC001	Field Rd	EEE	CL. 04	647	145	2.5	100%
2	1000001	CMCC002	Adkins Rd	EEE	CL. 04	117	117		
3	1000001	CMCC003	Field Rd	EEE	CL. 04	124	124		
4	1000001	CMCC004	Field Rd	EEE	CL. 04	124	124		
5	1000001	CMCC005	Western Branch MC	EEE	CL. 04	125	125		
6	1000001	CMCC006	Douglas Rd / Canal	EEE	CL. 04	693	693	4.5	
7	1000001	CMCC007	Big Eddy Rd	EEE	CL. 04	713	713	1.4	
8	1000001	CMCC008	Arden Rd / Big Eddy Rd	EEE	CL. 04	713	713	1	
9	1000001	CMCC009	Adkins Rd	EEE	CL. 04	140	140		
10	1000001	CMCC010	St. Brades Rd	EEE	CL. 04	140	140		
11	1000001	CMCC011	Field Rd	EEE	CL. 04	726	726	10.2	
12	1000001	CMCC012	Polk Rd / Northwood Dr	EEE	CL. 04	726	726	5	
13	1000001	CMCC013	Big Eddy Rd	EEE	CL. 04	802	802		
14	1000001	CMCC014	Big Eddy Rd	EEE	CL. 04	807	807		
15	1000001	CMCC015	Big Eddy Rd	EEE	CL. 04	811	811	6.27	
16	1000001	CMCC016	Big Eddy Rd	EEE	CL. 04	805	805	1.45	
17	1000001	CMCC017	Field Rd	EEE	CL. 04	105	105		



The variety of breeding places of the mosquito in your surroundings



Chesapeake Mosquito Commission

Health Profile Questions & Answers



Chesapeake, VA